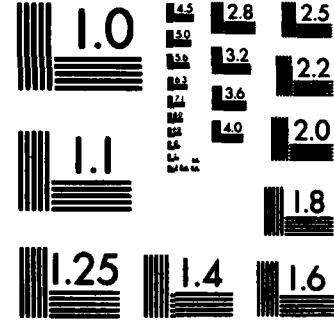


RD-A136 687 19318B MLRS MISSILE NUMBER V53-87 ROUND NUMBER 546/CH-3 1/1  
7 DECEMBER 1983(U) ARMY ELECTRONICS RESEARCH AND  
DEVELOPMENT COMMAND WSMR NM ATM. D C KELLER DEC 83  
UNCLASSIFIED ERADCOM/ASL-DR-1331 F/G 4/2 NL

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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

DA-1001  
Dec 83

AD

(12)

ADA136687

METEOROLOGICAL DATA REPORT  
19318B MLRS  
Missile Number V53-07  
Round Number 546/CH-3  
7 December 1983

by

DONALD C. KELLER  
Program Support Coordinator  
Phone Number (505) 679-9568  
AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY  
WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19318B MLRS, Missile Number V53-07, Round Number 546/CH-3 are presented in tabular form.		

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<b>DISCUSSION-----</b>		<b>1</b>
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Distribution/  
Availability Codes  
Level and/or  
Stat Special

## INTRODUCTION

19318B MLRS, Missile Number V53-07, Round Number 546/CH-3, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1500 MST, 7 December 1983. The scheduled launch time was 1500 MST.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm}/\text{m}^3$ ), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing tower-mounted anemometer at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

#### SITE AND ALTITUDE

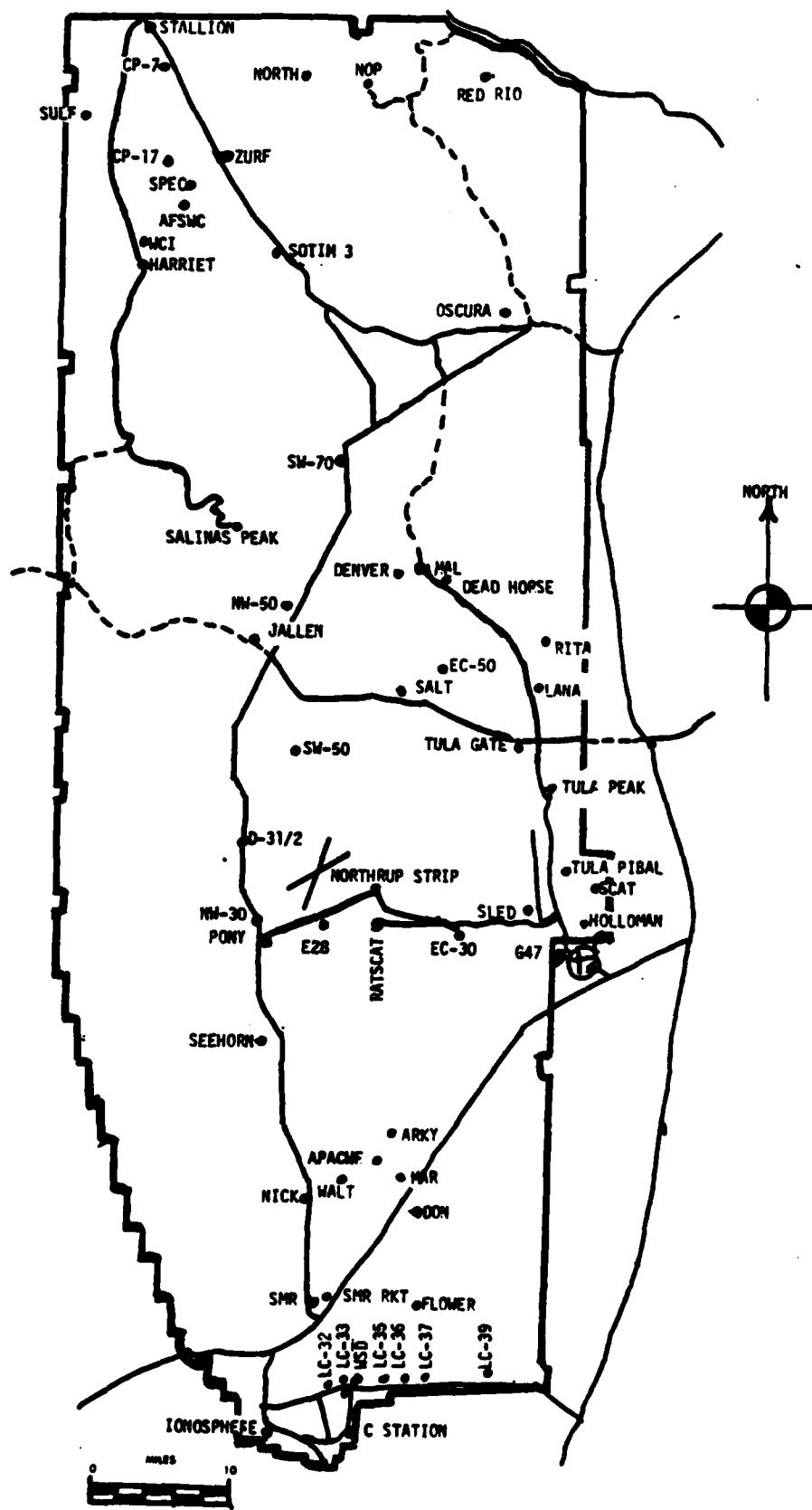
LC-33	2 km
DON	2 km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

#### SITE AND TIME

WSD	1300 MST
LC-37	1400 MST
WSD	1500 MST

## WSMR METEOROLOGICAL SITES



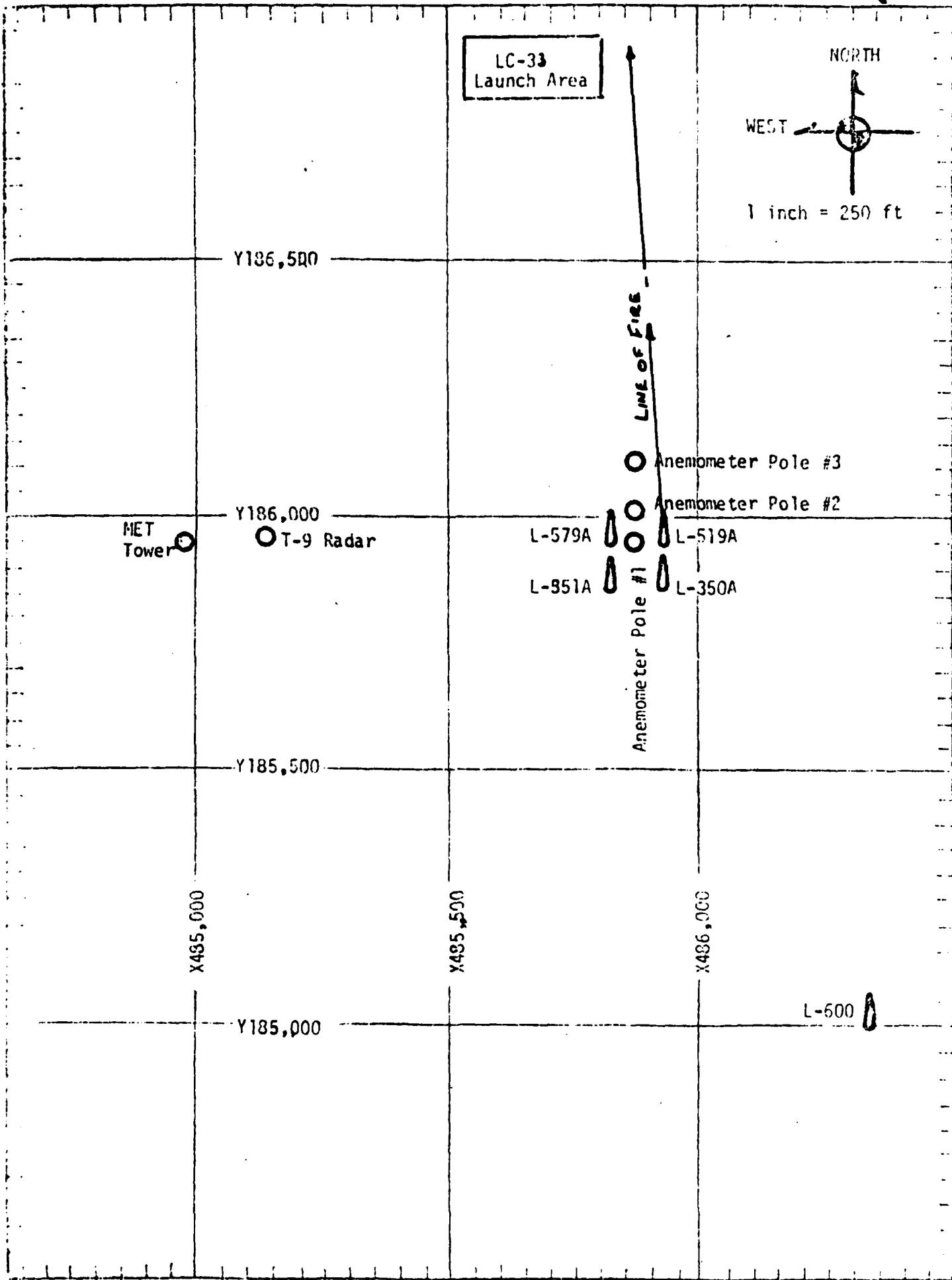




TABLE 2

LC-33 METEOROLOGICAL TOWER  
ANEMOMETER MEASURED WIND DATA

WSTM COORDINATES X=484,982.64 Y=185,957.73 H=3983.00 (BASE)

DATE 7 Dec 83 1500 M S T  
 DAY MONTH YEAR TIME

LEVEL #1			12 FT AGL			LEVEL #2			62 FT AGL		
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	330	03	T-30	351	02						
T-20	334	03	T-20	351	03						
T-10	014	03	T-10	351	03						
T- 0 (1st T)	015	03	T- 0 (1st T)	351	03						
T+10	021	02	T+10	351	03						
T+20	027	02	T+20	351	03						
T+30	026	02	T+30	351	02						
T+40	026	02	T+40	351	02						
T+50	010	03	T+50	351	02						
T+60	355	03	T+60	351	01						
LEVEL #3			102 FT AGL			LEVEL #4			202 FT AGL		
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	357	02	T-30	026	03						
T-20	313	02	T-20	357	03						
T-10	360	02	T-10	354	03						
T- 0 (1st T)	357	03	T- 0 (1st T)	350	03						
T+10		CALM	T+10	347	02						
T+20	333	01	T+20	347	02						
T+30	333	02	T+30	344	02						
T+40	326	01	T+40	344	01						
T+50	325	01	T+50	345	01						
T+60	327	01	T+60	340	02						

TABLE 3

## T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 07 December 1983

SITE: LC-33  
 TIME: 1500 MST  
 WSTM COORDINATES:  
 X= 484,837.34  
 Y= 184,122.44  
 H= 3,975.57

SITE: DON  
 TIME 1500 MST  
 WSTM COORDINATES:  
 X= 511,988.37  
 Y= 247,396.36  
 H= 3,996.83

LAYER MIDPOINT <u>METERS AGL</u>	DIRECTION <u>DEGREES</u>	SPEED <u>KNOTS</u>	LAYER MIDPOINT <u>METERS AGL</u>	DIRECTION <u>DEGREES</u>	SPEED <u>KNOTS</u>
SURFACE		CALM	SURFACE		CALM
150		CALM	150		01
210		CALM	210		01
270	319	01	270	145	01
330	306	02	330	144	01
390	298	03	390	070	02
500	297	07	500	345	02
650	300	11	650	299	10
800	304	13	800	296	10
950	308	14	950	313	15
1150	322	15	1150	325	20
1350	328	19	1350	329	16
1550	319	22	1550	315	20
1750	314	19	1750	310	22
2000	319	24	2000	310	26

Data obtained from a double  
 Theodolite Tracked pilot-balloon  
 observation.

Data obtained from a RAPTS T-9  
 radar tracked pilot-balloon  
 observation.

TABLE 4

AIMING AND T-TIME COMPUTER MET MESSAGE DATA

07 December 1983

WSD 1300 MST	LC-37 1400 MST	WSD 1500 MST
METCM1324064	METCM1324063	METCM1324064
072000122883	072100124880	072200122882
00053006 28870883	00107003 28680880	00000000 29050882
01084010 28590873	01116005 28650869	01024004 28800872
02621003 28360847	02541003 28450844	02608003 28500846
03516020 28340807	03525017 28380804	03535011 28350807
04540020 28230760	04563020 28180757	04574019 28190759
05549021 28000715	05564021 27850713	05562020 27850715
06552022 27610673	06544026 27480670	06564025 27510672
07545028 27300632	07537031 27220629	07536028 27250631
08534035 27050594	08530035 27070591	08529029 27090593
09515045 26830558	09519041 26830555	09516042 26860557

STATION ALTITUDE 3400.0 FT. T MSL  
7 DEG. R3 E 300 MRS. MSL  
ASCENSION NO. 015

SIGNIFICANT LEVEL DATA  
5414020613  
WHITE SAMOS  
TABLE 5

PRESSURE GRD. FINE	TEMPERATURE	REL.HUM.
ALTITUDE MILLIMARS MSL FINE	AIR DEPTHS CENTIGRADE	PERCENT
893.4	3000.0	14.5
877.0	4100.7	12.3
856.0	5040.2	10.3
823.2	5750.8	9.0
807.8	6030.4	10.4
729.1	9257.3	7.7
700.0	10317.3	5.2
661.1	11440.3	1.5
616.2	14110.4	-2.3
562.2	16070.4	-4.6
527.8	17701.9	-7.3
500.0	19000.0	-10.3

GEODETIC COORDINATES  
32°40'04.3 LAT DEG  
106°37'03.3 LONG DEG

STATION ALTITUDE 3,989.0 FEET, SL  
7 DEC. 83 1300 HRS EST  
ASCENSION NO. 013

UPPER AIR DATA  
34100200J  
WHITE SANDS  
TABLE 6

GEOMETRIC COORDINATES  
32°40'04.5 LAT DEG  
106°37'03.5 LONG DEG

GEOMETRIC ALTITUDE MILLIBARS MSL FEET	PRESSURE 10 <sup>3</sup> MILLIBARS	TEMPERATURE 10 <sup>3</sup> DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TRUE)	WIND DATA KNOTS	INDEX OF REFRACTION
3989.0	985.4	14.2	-6.9	22.0	1060.2	661.2	30.0	1.000255
4000.0	985.0	14.4	-7.2	21.8	1068.3	661.1	29.3	6.0
4500.0	967.1	11.6	-11.4	18.7	1059.8	657.7	349.2	5.2
5000.0	951.0	10.4	-11.0	19.9	1044.9	650.4	315.8	1.000245
5500.0	935.0	9.2	-11.2	21.9	1029.2	655.3	299.2	10.0
6000.0	920.8	9.2	-10.4	23.4	1010.3	655.4	290.8	13.5
6500.0	906.8	10.3	-10.4	23.9	988.9	656.4	290.2	17.6
7000.0	901.4	9.9	-10.4	22.8	972.6	655.8	291.0	20.9
7500.0	700.7	9.4	-11.4	21.7	956.5	655.2	297.8	20.3
8000.0	662.6	8.9	-12.4	20.7	940.8	654.7	303.5	20.4
8500.0	643.7	8.4	-13.4	19.6	925.2	654.1	307.4	21.5
9000.0	625.0	7.9	-14.5	18.5	910.0	653.5	309.2	21.8
9500.0	621.6	7.1	-15.3	18.5	896.0	652.5	309.4	21.6
10000.0	605.3	5.9	-15.0	19.4	883.2	651.2	309.7	21.0
10500.0	609.2	4.8	-16.2	20.1	870.7	649.8	310.2	19.9
11000.0	602.3	3.5	-17.0	20.4	858.3	648.3	310.4	20.3
11500.0	609.6	2.3	-17.6	20.8	846.1	646.9	310.2	22.7
12000.0	605.1	1.2	-18.0	21.1	833.6	645.6	309.1	24.9
12500.0	604.7	.4	-19.0	21.6	820.4	644.6	307.5	27.1
13000.0	632.6	-4	-19.5	22.0	807.4	643.6	306.3	28.2
13500.0	620.6	-1.3	-20.0	22.5	794.6	642.6	305.3	28.9
14000.0	606.4	-2.1	-20.5	22.9	782.1	641.6	304.0	30.9
14500.0	397.4	-2.7	-21.3	22.2	769.1	640.4	301.8	33.7
15000.0	280.9	-3.9	-22.4	21.2	756.1	640.1	297.5	38.2
15500.0	274.6	-3.9	-23.4	20.2	743.3	639.4	294.0	42.2
16000.0	265.9	-4.5	-24.5	19.2	730.8	638.7	291.3	45.0
16500.0	255.0	-5.3	-25.3	18.0	718.9	637.7	289.0	44.6
17000.0	242.4	-6.1	-27.3	16.7	707.3	636.7	289.0	42.7
17500.0	232.0	-7.0	-28.3	15.5	695.9	635.7	288.5	39.9
18000.0	221.7	-7.9	-30.0	15.0	685.0	634.5	289.2	35.9
18500.0	211.3	-9.0	-30.9	15.0	674.5	633.2	289.1	31.3
19000.0	201.6	-10.1	-31.7	15.0	664.1	631.9	289.0	1.000150

STATION ALTITUDE 3490.0 FT. SL.  
/ DEC. 83  
ASCENSION NO. 13

Meteorological Levels  
3410020613  
White Sands

TABLE 7

MEASURE, ELEVATIONAL MILLIBARS	FLEET	TEMPERATURE DEGREES	DEMPUNI CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	5002.	10.3	-11.6	20.	313.8	7.2
800.0	6603.	10.1	-9.8	23.	290.1	19.2
750.0	8447.	8.5	-15.3	20.	307.0	21.3
700.0	10307.	5.2	-15.9	20.	310.0	20.3
650.0	12274.	.8	-18.8	21.	308.1	26.2
600.0	14369.	-2.6	-21.1	22.	305.0	32.7
550.0	16622.	-5.5	-26.3	16.	289.5	44.5
500.0	19053.	-10.3	-31.9	15.		

GEODETIC COORDINATES  
32°40'04.3 LAT UEG  
106°37'03.3 LONG LEG

SATION ALTITUDE 4001.37 FT T.SA  
DEC. 13 1400 HRS MST  
ASCENSION NO. 18

SIGNIFICANT LEVEL DATA  
3410130176  
L.C-37

TABLE 8

GEODETIC COORDINATES  
32°40'17.5" LAT DEG  
106°31'25.2" LONG DEG

PRESSURE MILLIBARS	GROGRAPHIC ALTITUDE MIL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT
870.8	41151.4	13.1	24.0
871.6	41090.6	13.3	19.0
850.0	41099.4	11.2	20.0
820.2	4074.5	9.9	23.0
809.9	6319.6	10.7	24.0
789.5	7611.8	10.3	23.0
770.0	7697.7	8.6	22.0
759.7	8065.3	6.8	20.0
740.0	10267.7	4.1	23.0
656.3	12057.4	-0.1	23.0
645.1	12430.0	1	22.0
605.0	16110.1	-2.9	19.0
596.0	14460.1	-1.8	19.0
561.4	15610.3	-4.4	16.0
547.1	16722.7	-5.5	19.0
500.0	19n21.2	-10.8	15.0

STATION ALTITUDE 4651.37 FEET, S.I.  
 / ULC. #3  
 1400 HRS, MDT  
 ASCENSION NO. 1/6

UPPER AIR DATA  
 3410100170  
 LC-37

GEOMETRIC PRESSURE  
 ALTITUDE AIR  
 MSL FEET MILLIBARS DEGREES CENTIGRADI

4051.4 676.0 13.1 -7.0 24.0 1069.1 659.0 60.0 2.9 1.000255  
 4500.0 666.6 12.7 -10.1 19.3 1053.5 659.1 345.0 2.4 1.000248  
 5000.0 656.0 11.2 -10.9 20.0 1040.1 657.3 308.8 5.3 1.000244  
 5500.0 634.6 10.5 -10.3 21.5 1023.6 656.6 299.4 8.8 1.000241  
 6000.0 619.4 10.0 -10.1 23.1 1007.0 655.9 295.4 12.4 1.000238  
 6500.0 604.0 9.6 -9.2 23.7 986.4 656.7 298.3 15.2 1.000234  
 7000.0 590.0 9.0 -9.9 23.0 969.5 656.4 302.5 17.8 1.000230  
 7500.0 750.6 9.1 -11.3 22.3 956.1 654.9 308.2 19.1 1.000225  
 8000.0 611.5 8.8 -12.7 20.3 939.9 654.5 315.2 19.7 1.000220  
 8500.0 147.5 7.9 -13.3 20.6 925.6 653.4 319.1 26.4 1.000217  
 9000.0 133.7 6.8 -13.8 21.3 912.1 652.2 319.9 26.8 1.000213  
 9500.0 120.2 5.7 -16.3 22.6 898.7 650.9 318.7 21.2 1.000210  
 10000.0 107.0 4.7 -14.6 22.6 885.6 649.7 313.5 21.4 1.000207  
 10500.0 69.9 3.6 -15.0 23.0 872.7 648.4 309.0 22.2 1.000203  
 11000.0 68.0 2.4 -16.0 23.0 860.1 647.0 306.5 23.9 1.000200  
 11500.0 66.0 1.2 -17.0 23.0 847.7 645.6 304.6 25.8 1.000197  
 12000.0 65.0 0.0 -16.0 23.0 835.5 644.2 304.0 26.0 1.000193  
 12500.0 64.0 0.0 -19.2 21.9 820.0 644.1 304.4 30.0 1.000189  
 13000.0 631.2 0.9 -20.4 21.0 807.2 643.0 303.6 30.8 1.000186  
 13500.0 617.0 0.0 -21.7 20.1 794.5 641.9 302.4 31.7 1.000183  
 14000.0 607.5 0.0 -21.0 19.2 782.1 640.9 300.6 32.0 1.000179  
 14500.0 590.0 0.0 -22.4 18.9 764.9 641.9 298.5 34.3 1.000176  
 15000.0 384.7 0.0 -23.0 17.9 752.8 640.8 296.2 36.3 1.000172  
 15500.0 273.0 0.0 -25.2 16.9 741.0 639.7 294.2 38.1 1.000169  
 16000.0 262.0 0.0 -24.5 16.0 729.3 638.7 292.5 39.7 1.000166  
 16500.0 251.0 0.0 -25.2 16.0 717.1 637.9 291.6 41.3 1.000163  
 17000.0 241.2 0.1 -26.1 15.9 705.6 636.7 290.9 43.0 1.000160  
 17500.0 230.7 0.0 -27.0 15.7 695.1 635.3 290.4 43.1 1.000158  
 18000.0 220.4 0.0 -30.1 15.4 684.6 633.9 289.6 43.0 1.000155  
 18500.0 210.0 0.0 -29.0 15.2 674.3 632.6 289.2 43.0 1.000153  
 19000.0 200.4 0.0 -30.2 15.0 664.2 631.2 289.0 43.0 1.000150

GEOMETRIC COOKIES  
 32.40175 LAI LEG  
 106.31232 LOI DEG

TABLE 9

WIND DATA  
 OF  
 REFRACTION

STATION ALTITUDE 4051.37 FT. MSL  
? DEC. 03 HRS. MST  
ASCENSION NO. 178

MANDATORY LEVELS  
3410180176  
LC-37

TABLE 10

PRESSURE CEPOTENTIAL MILLIBARS	CEPOTENTIAL FEET	TEMPERATURE		REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES (TN)	SPFED KNOTS
		AIR DEMPNT DEGREES	CENTIGRADE			
850.0	4996.	11.2	-10.9	20.	308.9	5.3
800.0	6650.	10.5	-9.4	24.	299.7	16.0
750.0	8104.	8.1	-15.2	20.	316.9	20.5
700.0	10258.	4.1	-15.1	23.	310.9	21.7
650.0	12218.	-0	-18.9	23.	304.6	29.0
600.0	14309.	-2.2	-22.7	19.	299.4	33.5
550.0	16265.	-5.3	-27.1	16.	291.5	41.6
500.0	18904.	-10.8	-32.3	15.		

GEODETIC COORDINATES  
32°40'17" LAT LEG  
106°31'23" LONG LEG

SATION ALTITUDE 3389.00 FEET MSL  
7 DEG. 83' 1500 HRS, MAR  
AERONAVIGATION NO. 014

SIGNIFICANT LEVEL DATA  
3410020014  
WHITE SANDS  
TABLE II

PRES., WIND, CLOUDS, FRACTION MILLIBARS (MSL FEE)	ALTITUDE FEET	TEMPERATURE AIR, DEGREES CENTIGRADE	REL. HUM. PERCENT
842.3	3709.0	16.6	21.0
850.0	4442.5	15.3	22.0
850.0	5019.5	11.0	24.0
827.4	5756.5	9.9	27.0
807.6	6417.6	10.3	29.0
749.2	8159.7	6.1	28.0
706.0	10285.9	3.7	24.0
667.7	11540.0	1.1	25.0
661.4	11790.6	1.4	24.0
616.9	13870.5	-2.6	25.0
593.1	14640.0	-2.0	20.0
560.5	16164.9	-4.4	29.0
509.0	19042.8	-10.7	24.0

GEODETIC COORDINATES  
32°49'04.3 LAT deg  
106°37'33.0 Lon deg

STATION ALTITUDE 5,889.00 FEET MSL  
7 DEG. 83' 1500 HRS, NOV.  
ASCLNATION NO. 614

UPPER AIR DATA  
3010020014  
WHITE SANDS

GEONETIC COORDINATES  
32.49043 LAT DEG  
106.37033 LONG DEG

GEONETIC PRESSURE  
ALTITUDE  
FEET MILLIBARS  
MILLIBARS  
DEGREES, CENTIGRADE

GEONETIC PRESSURE ALTITUDE FEET	IMPLIMENTAL AIR ULTRAVIOLET IRRADIANCE, CENTIGRADE	REL.HUM. PERCENT	DENSITY METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(STN)	WIND DATA SPED KNOTS	INDEX OF REFRACTION
3989.0	882.3	16.0	-5.0	21.0	1059.0	665.7	.0
4000.0	882.0	16.5	-5.0	21.0	1058.9	665.6	.0
4500.0	860.2	13.2	-7.0	22.2	1052.4	659.7	1.5
5000.0	850.6	11.9	-9.1	23.9	1038.2	658.2	3.0
5500.0	835.2	10.6	-9.5	25.3	1024.0	656.7	4.5
6000.0	820.1	10.0	-8.2	26.7	1007.2	650.1	7.5
6500.0	805.2	10.2	-7.5	27.6	988.3	650.3	10.9
7000.0	790.5	9.7	-8.0	26.9	972.2	655.7	14.2
7500.0	775.1	9.1	-8.4	25.9	956.4	653.0	16.8
8000.0	762.0	8.6	-10.0	24.9	940.8	654.4	18.6
8500.0	745.0	8.0	-11.3	24.0	925.7	653.7	19.5
9000.0	734.3	8.8	-12.0	24.0	912.6	652.2	19.8
9500.0	720.8	5.6	-13.3	24.0	899.0	650.4	20.2
10000.0	707.3	4.4	-14.4	24.0	887.1	649.4	20.6
10500.0	694.4	3.9	-15.3	24.2	874.3	648.0	22.5
11000.0	681.4	2.2	-15.4	24.6	861.2	646.8	25.1
11500.0	669.7	1.2	-16.0	25.0	858.4	645.6	26.5
12000.0	659.1	1.0	-17.2	24.1	853.0	645.3	26.9
12500.0	646.8	.0	-17.9	24.3	820.2	644.2	26.3
13000.0	631.6	-9	-18.6	24.6	807.0	643.1	26.3
13500.0	619.7	-1.9	-19.3	24.8	795.2	641.9	26.9
14000.0	609.0	-2.3	-20.2	24.2	782.0	641.2	26.6
14500.0	599.0	-2.1	-21.0	21.0	766.1	641.6	29.5
15000.0	589.4	-2.6	-21.0	21.4	752.8	641.1	294.6
15500.0	574.9	-3.3	-21.3	23.4	740.6	640.1	294.9
16000.0	563.1	-4.1	-21.0	25.3	728.6	639.2	292.7
16500.0	552.2	-5.1	-21.7	25.6	717.2	638.0	291.6
17000.0	541.3	-6.2	-20.4	25.4	706.3	636.7	291.5
17500.0	531.1	-7.3	-21.9	25.1	695.5	635.4	290.5
18000.0	520.6	-8.4	-25.0	24.7	684.9	634.1	37.3
18500.0	511.7	-9.5	-26.1	24.4	674.5	632.7	40.2
19000.0	500.0	-10.6	-27.2	24.0	664.2	631.4	42.4

TABLE 12

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STATION ALTITUDE 3400.00 FT. T.SL  
/ UTC. 03 1500 HRS. WEST  
ASCENSION NO. 014

MATERIAL LEVELS  
34100020614  
WHITE SANDS

TABLE 13

PRESSURE (EQUIVALENT MILLIBARS)	ELEVATION FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEPONIT DEGREES CENTIGRADE	DEG CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KILOTS
850.0	5016.	11.0	-6.1	24.	311.2	3.1
800.0	6670.	10.0	-7.9	27.	303.9	12.0
750.0	8423.	8.1	-11.2	24.	323.0	12.5
700.0	10276.	5.7	-15.0	24.	316.4	21.4
650.0	12217.	.5	-17.6	24.	310.0	20.0
600.0	14329.	-2.2	-21.0	22.	290.1	29.0
550.0	16546.	-5.4	-21.9	20.	291.5	40.6
500.0	19016.	-10.7	-21.3	24.		

FILMI

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DTIC